

Express mail certificate number EV 487107159 US dated 19 April 2006

PTO-1390 (Rev. 07-2005)  
Approved for use through 3/31/2007. OMB 0651-0021  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
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<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 1-17265
INTERNATIONAL APPLICATION NO. PCT/EP2004/011916		U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/576375</b>
INTERNATIONAL FILING DATE 21 October 2004 (21.10.2004)		PRIORITY DATE CLAIMED 21 October 2003 (21.10.2003)
TITLE OF INVENTION Device and Method for Increasing the Concentration of Fuel in a Liquid Flow Supplied to the Anode of a Fuel Cell		
APPLICANT(S) FOR DO/EO/US Anders Oedegaard et al		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).               <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p>Items 11 to 20 below concern document(s) or information included:</p> <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter. (combined with Declaration)</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> </ol>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

1AP20 Rec'd PCT/PTO 19 APR 2006

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold;">10/576375</div>	INTERNATIONAL APPLICATION NO. PCT/EP2004/011916	ATTORNEY'S DOCKET NUMBER 1-17265														
20. Other items or information: Express mail certificate; return receipt card; formal drawings (2 sheets on A4); copy of ISA/210 International Search Report; copy of cover page of published intl appln WO 2005/039748; copies of foreign patent documents identified on SB/08A & SB/08B																
The following fees have been submitted		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 60%;">CALCULATIONS</th> <th style="width: 40%;">PTO USE ONLY</th> </tr> </table>	CALCULATIONS	PTO USE ONLY												
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21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ 300</td> <td style="width: 40%;"></td> </tr> </table>	\$ 300													
\$ 300																
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ 200</td> <td style="width: 40%;"></td> </tr> </table>	\$ 200													
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23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ 400</td> <td style="width: 40%;"></td> </tr> </table>	\$ 400													
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<b>TOTAL OF 21, 22 and 23 =</b>																
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">Total Sheets</th> <th style="width: 20%;">Extra Sheets</th> <th style="width: 40%;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="width: 20%;">RATE</th> </tr> <tr> <td>24 - 100 =</td> <td>0 /50 =</td> <td></td> <td>x \$250</td> </tr> </table>	Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	24 - 100 =	0 /50 =		x \$250	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ -</td> <td style="width: 40%;"></td> </tr> </table>		\$ -					
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24 - 100 =	0 /50 =		x \$250													
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Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ -</td> <td style="width: 40%;"></td> </tr> </table>	\$ -													
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 20%;">NUMBER FILED</th> <th style="width: 20%;">NUMBER EXTRA</th> <th style="width: 20%;">RATE</th> </tr> <tr> <td>Total claims</td> <td>34 - 20 =</td> <td>14</td> <td>x \$ 50</td> </tr> <tr> <td>Independent claims</td> <td>2 - 3 =</td> <td>0</td> <td>x \$200</td> </tr> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	34 - 20 =	14	x \$ 50	Independent claims	2 - 3 =	0	x \$200	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ 700</td> <td style="width: 40%;"></td> </tr> </table>		\$ 700	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE													
Total claims	34 - 20 =	14	x \$ 50													
Independent claims	2 - 3 =	0	x \$200													
\$ 700																
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ -</td> <td style="width: 40%;"></td> </tr> </table>	\$ -													
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<b>TOTAL OF ABOVE CALCULATIONS =</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ 1,600</td> <td style="width: 40%;"></td> </tr> </table>	\$ 1,600													
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<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.																
<b>SUBTOTAL =</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ -</td> <td style="width: 40%;"></td> </tr> </table>	\$ -													
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Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ -</td> <td style="width: 40%;"></td> </tr> </table>	\$ -													
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ 40</td> <td style="width: 40%;"></td> </tr> </table>	\$ 40													
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<b>TOTAL FEES ENCLOSED =</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">\$ 1,640</td> <td style="width: 40%;"></td> </tr> </table>	\$ 1,640													
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- a. ☒ A check in the amount of \$ 1,640.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 13-1816. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Cutomer Number 001678

Marshall & Melhorn, LLC

Four SeaGate - 8th Floor

Toledo, Ohio 43604

Phone: (419) 249-7114

Fax: (419) 249-7151

SIGNATURE

MARK A. HIXON

NAME

44,766

REGISTRATION NUMBER

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CERTIFICATE UNDER 37 CFR 1.10 OF MAILING BY "EXPRESS MAIL"

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Date of Deposit April 19, 2006

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\_\_\_\_\_  
Signature of person mailing correspondence

Mark A. Hixon  
\_\_\_\_\_  
Typed name of person mailing correspondence

FILING IN THE UNITED STATES DESIGNATED/ELECTED OFFICE  
(DO/EO/US) UNDER 35 USC 371

International Appln. No. PCT/EP2004/011916 filed 21 October 2004 (21.10.2004)

Earliest Priority Date Claimed: 21 October 2003 (21.10.2003)

Title: Device and Method for Increasing the Concentration of Fuel in a Liquid Flow Supplied to the Anode of a Fuel Cell

Inventors: Anders Oedegaard and Christopher Hebling

Assignee: Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung e.V.

Attorneys: Marshall & Melhorn, LLC

Attorney Docket No: 1-17265